

Title (en)

METHOD AND DEVICE FOR MONITORING OPERATING STATES OF ROTOR BLADES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG VON BETRIEBSZUSTÄNDEN VON ROTORBLÄTTERN

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE SURVEILLER LES ÉTATS DE FONCTIONNEMENT DE PALES DE ROTOR

Publication

EP 2898216 A1 20150729 (DE)

Application

EP 13763023 A 20130910

Priority

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- EP 2013068705 W 20130910

Abstract (en)

[origin: CA2884973A1] The invention relates to a method for monitoring the state of a rotor blade of a wind turbine. The method comprises the following steps: measuring an acceleration of the rotor blade by means of a first signal, said acceleration being measured at a first position at a predetermined distance from the rotor blade root in at least one direction, comprising a first direction component perpendicular to the axis of the rotor blade; measuring an elongation of the rotor blade by means of a second signal, said elongation being measured at a second position arranged in the region between the first position and the rotor blade root; determining a first position change at the first position by means of the acceleration; determining a first value corresponding to the rotor blade stiffness or to the rotor blade elasticity by means of calculation using the first position change and the elongation; and determining the state of the rotor blade from the first value.

IPC 8 full level

F03D 80/00 (2016.01)

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Citation (search report)

See references of WO 2014044575A1

Cited by

WO2019038710A1; DE112018004704T5; DE112018004704B4

Designated contracting state (EPC)

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